

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN120821\
 Data File : VN069864.D
 Acq On : 8 Dec 2021 16:29
 Operator : JC/MD
 Sample : M4956-19
 Misc : 5.00mL/MSVOA_N/WATER
 ALS Vial : 14 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 DUP07-20211205

Quant Time: Dec 09 11:41:42 2021
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N120221W.M
 Quant Title : SW846 8260
 QLast Update : Fri Dec 03 08:46:47 2021
 Response via : Initial Calibration

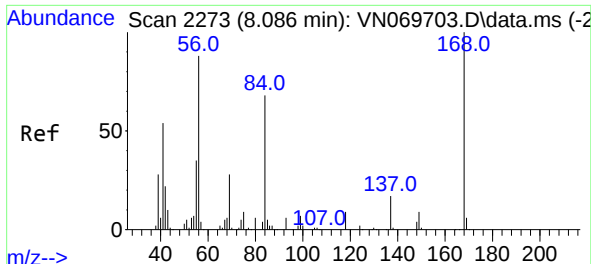
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) Pentafluorobenzene	8.088	168	1344855	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.968	114	2433880	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.744	117	2631401	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.678	152	985293	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.440	65	1050874	50.609	ug/l	0.00
Spiked Amount	50.000	Range	61 - 141	Recovery	= 101.220%	
35) Dibromofluoromethane	8.021	113	733707	48.127	ug/l	0.00
Spiked Amount	50.000	Range	69 - 133	Recovery	= 96.260%	
50) Toluene-d8	10.440	98	3158466	51.596	ug/l	0.00
Spiked Amount	50.000	Range	65 - 126	Recovery	= 103.200%	
62) 4-Bromofluorobenzene	12.733	95	1221217	55.067	ug/l	0.00
Spiked Amount	50.000	Range	58 - 135	Recovery	= 110.140%	
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	2.075	85	105402	6.720	ug/l	98
7) Trichlorofluoromethane	3.381	101	2428457	102.401	ug/l	99
9) 1,1,2-Trichlorotrifluo...	4.213	101	25051	1.884	ug/l #	63
12) 1,1-Dichloroethene	4.186	96	394723	30.813	ug/l	90
16) Acetone	4.296	43	17399	1.393	ug/l	99
24) 1,1-Dichloroethane	6.391	63	78928	2.701	ug/l	99
27) cis-1,2-Dichloroethene	7.324	96	29458	1.752	ug/l	94
28) Bromochloromethane	7.817	49	8933	0.588	ug/l #	9
29) Tetrahydrofuran	7.697	42	3278	0.318	ug/l #	76
30) Chloroform	7.817	83	90455	3.065	ug/l	99
31) Cyclohexane	8.086	56	35363	1.224	ug/l #	14
32) 1,1,1-Trichloroethane	8.016	97	89759	3.570	ug/l #	93
36) 1,1-Dichloropropene	8.086	75	114780	4.954	ug/l #	48
38) Carbon Tetrachloride	8.086	117	134523	5.921	ug/l #	17
39) Methylcyclohexane	9.217	83	13126	0.476	ug/l #	1
42) 1,2-Dichloroethane	8.536	62	6341	0.222	ug/l	87
44) Trichloroethene	9.217	130	957315	56.634	ug/l	90
49) 1,4-Dioxane	9.566	88	2090	4.891	ug/l #	1
53) t-1,3-Dichloropropene	10.711	75	81	2.797	ug/l #	63
54) cis-1,3-Dichloropropene	10.438	75	825	2.025	ug/l #	1
55) 1,1,2-Trichloroethane	10.902	97	4418	0.253	ug/l #	82
60) Dibromochloromethane	10.977	129	771410	41.684	ug/l #	11
64) Tetrachloroethene	10.977	164	799248	44.794	ug/l	95
76) 1,2,3-Trichloropropane	12.731	75	684413	24.222	ug/l #	1
81) trans-1,4-Dichloro-2-b...	12.731	75	684413	76.898	ug/l #	5
93) 1,2,4-Trichlorobenzene	15.276	180	285	2.895	ug/l #	56
95) Naphthalene	15.515	128	2175	4.027	ug/l #	77
96) 1,2,3-Trichlorobenzene	15.708	180	393	2.459	ug/l #	53

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quant Time: Dec 09 11:41:42 2021
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N120221W.M
Quant Title : SW846 8260
QLast Update : Fri Dec 03 08:46:47 2021
Response via : Initial Calibration

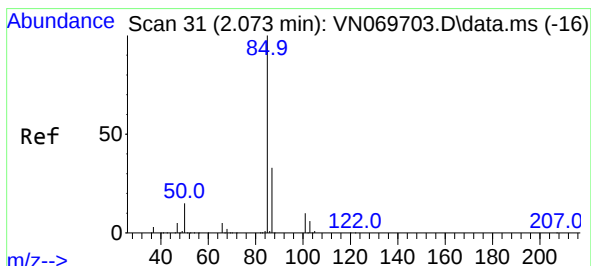
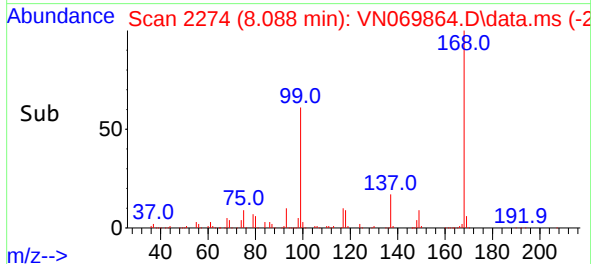
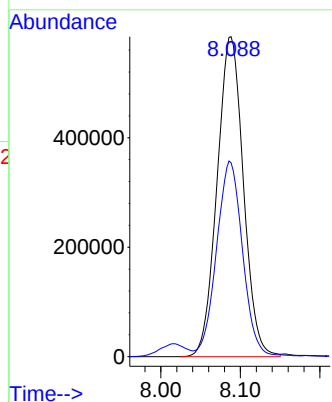
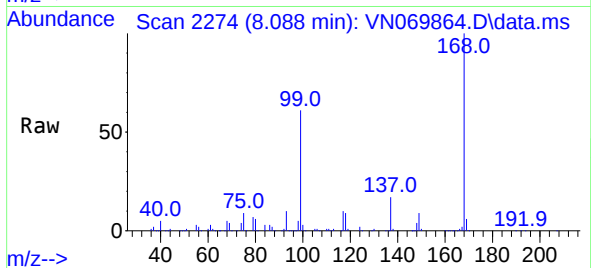




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.088 min Scan# 21
Delta R.T. 0.002 min
Lab File: VN069864.D
Acq: 8 Dec 2021 16:29

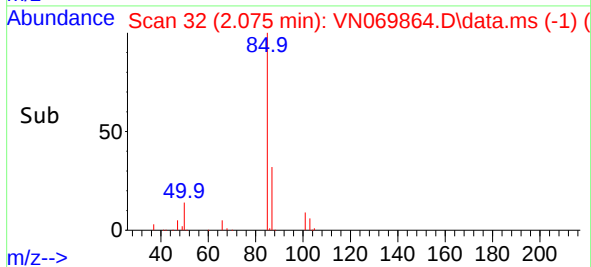
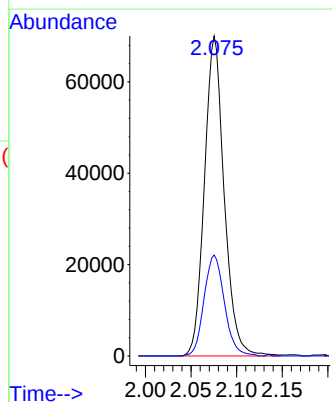
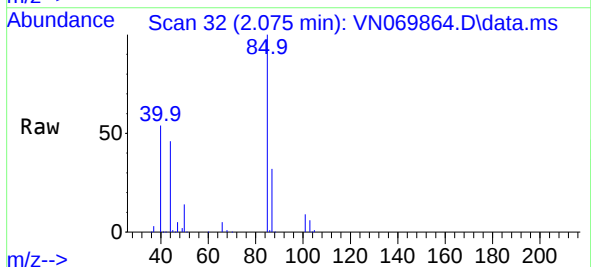
Instrument :
MSVOA_N
ClientSampleId :
DUP07-20211205

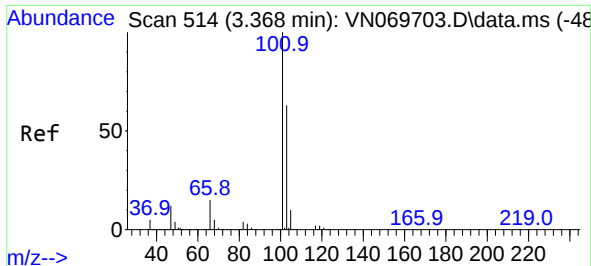
Tgt Ion:168 Resp: 1344855
Ion Ratio Lower Upper
168 100
99 60.0 41.3 61.9



#2
Dichlorodifluoromethane
Concen: 6.720 ug/l
RT: 2.075 min Scan# 32
Delta R.T. 0.003 min
Lab File: VN069864.D
Acq: 8 Dec 2021 16:29

Tgt Ion: 85 Resp: 105402
Ion Ratio Lower Upper
85 100
87 31.6 16.3 48.9

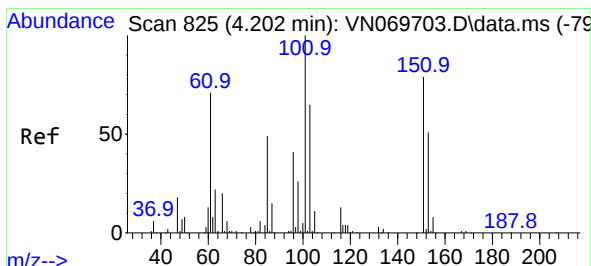
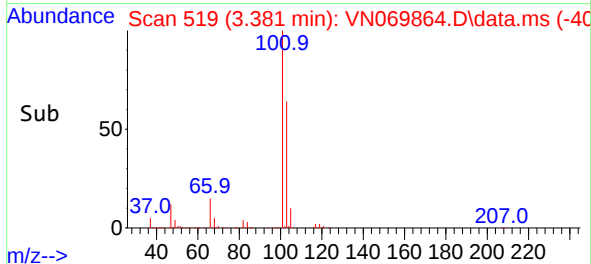
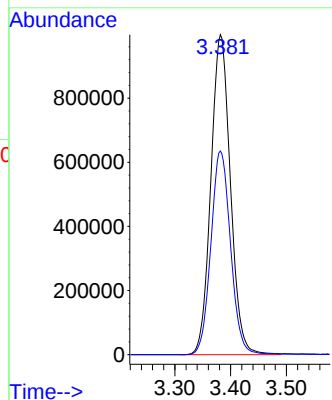
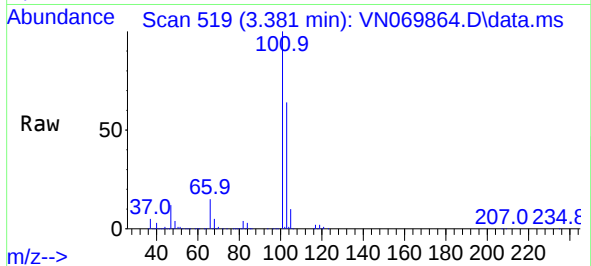




#7
 Trichlorofluoromethane
 Concen: 102.401 ug/l
 RT: 3.381 min Scan# 514
 Delta R.T. 0.014 min
 Lab File: VN069864.D
 Acq: 8 Dec 2021 16:29

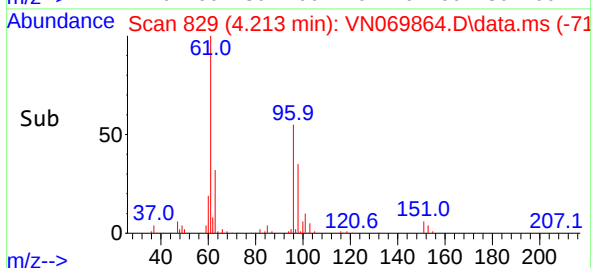
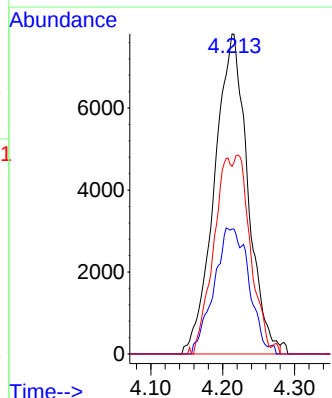
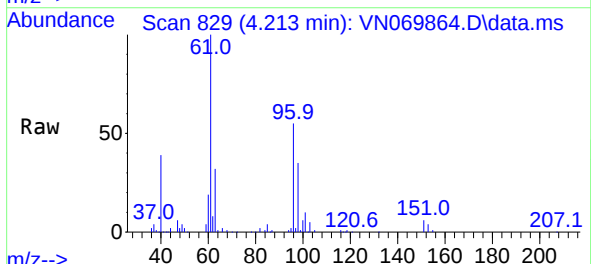
Instrument :
 MSVOA_N
 ClientSampleId :
 DUP07-20211205

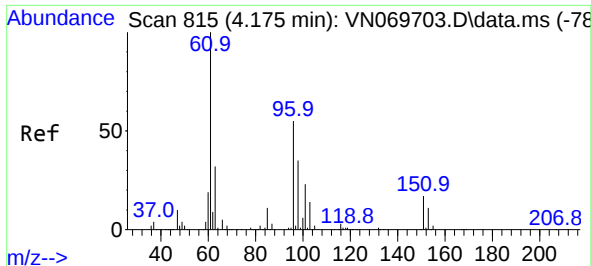
Tgt Ion:101 Resp: 2428457
 Ion Ratio Lower Upper
 101 100
 103 63.6 50.1 75.1



#9
 1,1,2-Trichlorotrifluoroethane
 Concen: 1.884 ug/l
 RT: 4.213 min Scan# 829
 Delta R.T. 0.011 min
 Lab File: VN069864.D
 Acq: 8 Dec 2021 16:29

Tgt Ion:101 Resp: 25051
 Ion Ratio Lower Upper
 101 100
 85 41.2 37.2 55.8
 151 34.5 65.9 98.9#

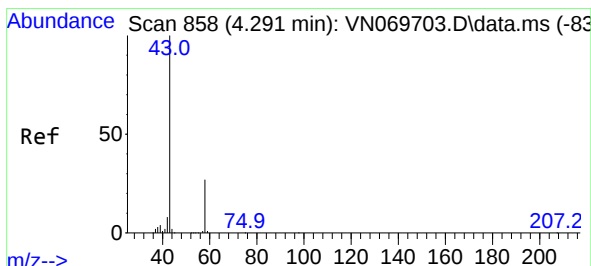
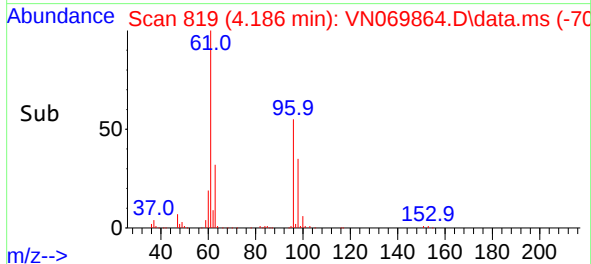
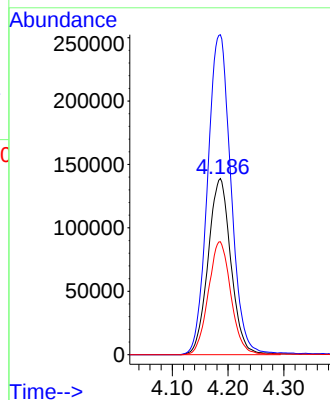
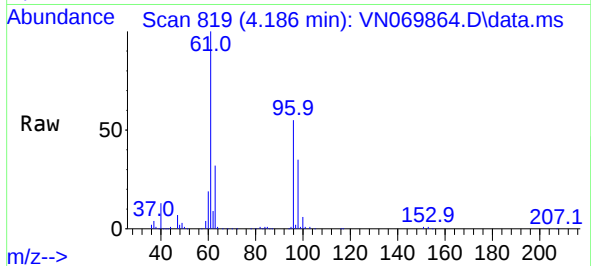




#12
1,1-Dichloroethene
Concen: 30.813 ug/l
RT: 4.186 min Scan# 815
Delta R.T. 0.011 min
Lab File: VN069864.D
Acq: 8 Dec 2021 16:29

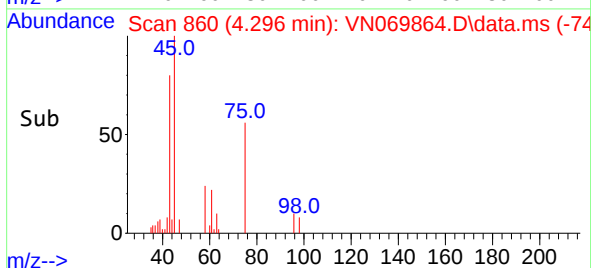
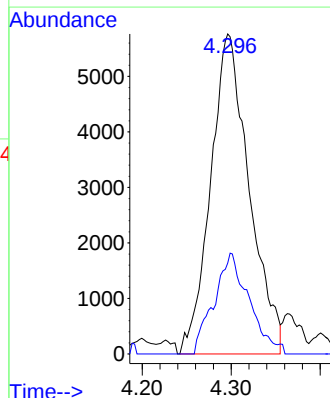
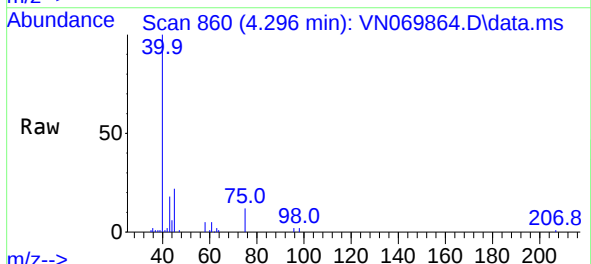
Instrument :
MSVOA_N
ClientSampleId :
DUP07-20211205

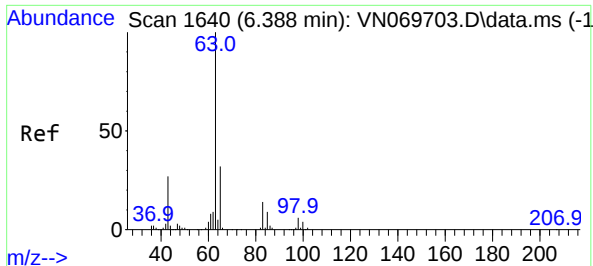
Tgt Ion: 96 Resp: 394723
Ion Ratio Lower Upper
96 100
61 181.6 131.0 196.6
98 64.1 52.4 78.6



#16
Acetone
Concen: 1.393 ug/l
RT: 4.296 min Scan# 860
Delta R.T. 0.005 min
Lab File: VN069864.D
Acq: 8 Dec 2021 16:29

Tgt Ion: 43 Resp: 17399
Ion Ratio Lower Upper
43 100
58 28.4 23.1 34.7





#24

1,1-Dichloroethane

Concen: 2.701 ug/l

RT: 6.391 min Scan# 1

Delta R.T. 0.003 min

Lab File: VN069864.D

Acq: 8 Dec 2021 16:29

Instrument :

MSVOA_N

ClientSampleId :

DUP07-20211205

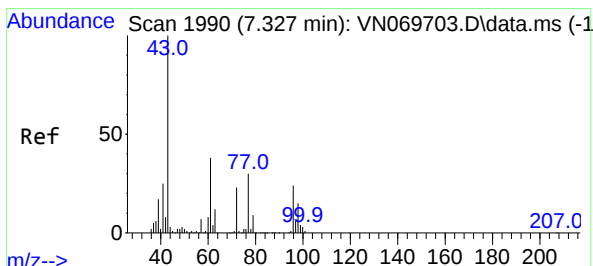
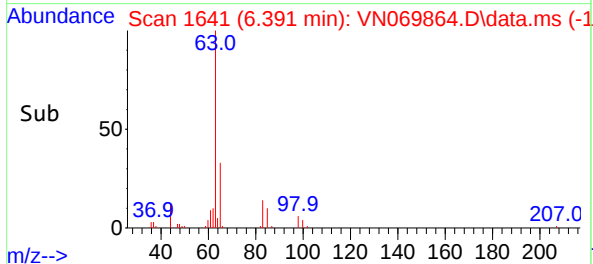
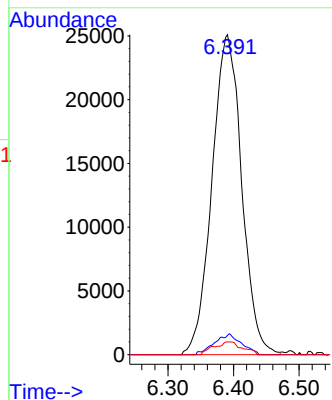
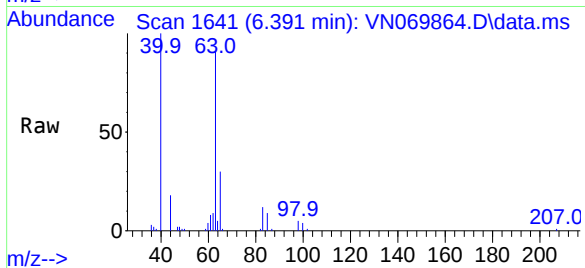
Tgt Ion: 63 Resp: 78928

Ion Ratio Lower Upper

63 100

98 6.0 3.3 9.9

100 4.0 2.1 6.5



#27

cis-1,2-Dichloroethene

Concen: 1.752 ug/l

RT: 7.324 min Scan# 1989

Delta R.T. -0.003 min

Lab File: VN069864.D

Acq: 8 Dec 2021 16:29

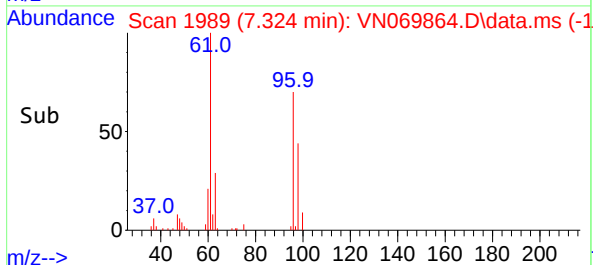
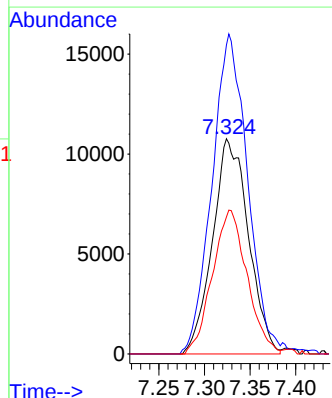
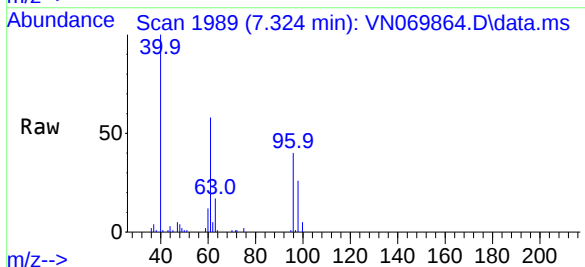
Tgt Ion: 96 Resp: 29458

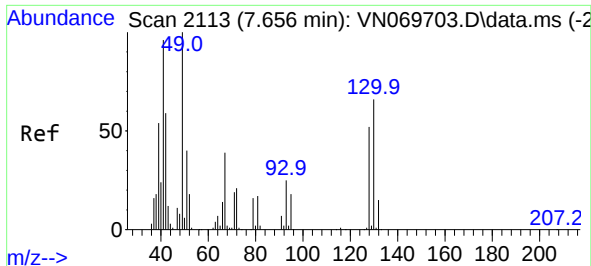
Ion Ratio Lower Upper

96 100

61 147.7 0.0 275.0

98 64.6 0.0 129.6

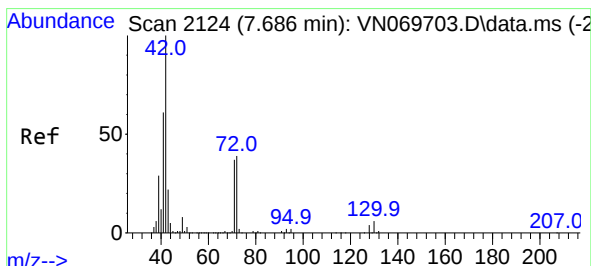
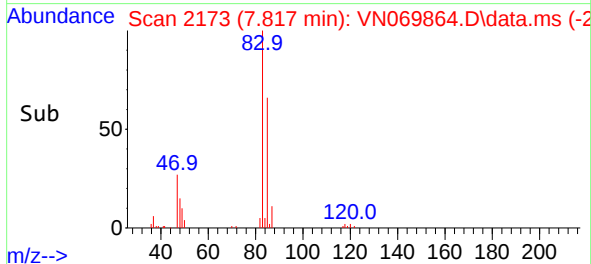
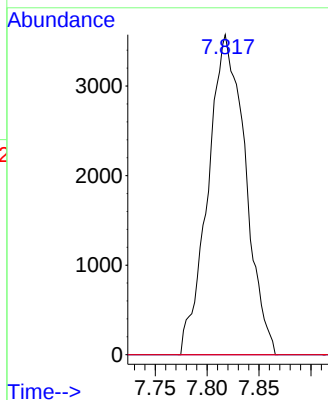
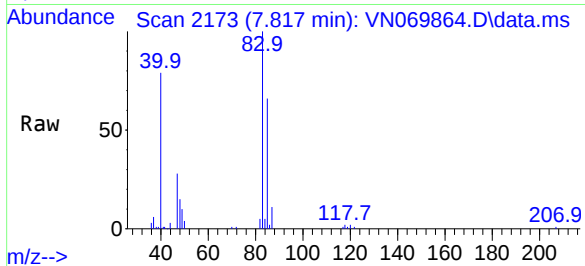




#28
Bromochloromethane
Concen: 0.588 ug/l
RT: 7.817 min Scan# 2113
Delta R.T. 0.161 min
Lab File: VN069864.D
Acq: 8 Dec 2021 16:29

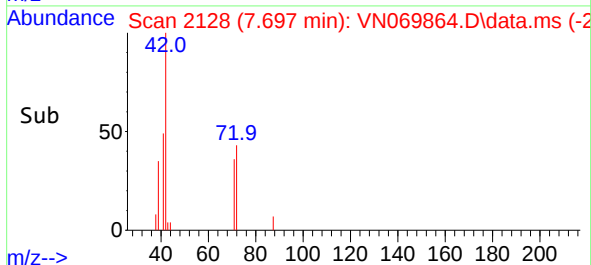
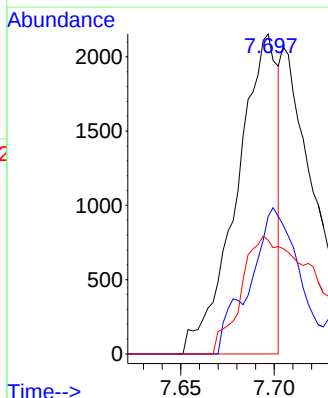
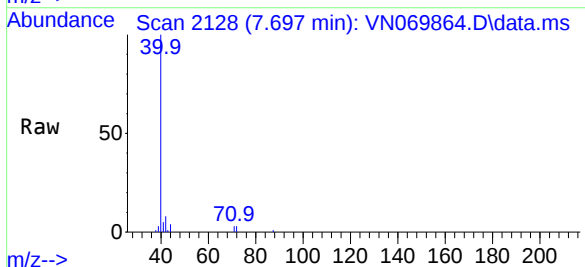
Instrument :
MSVOA_N
ClientSampleId :
DUP07-20211205

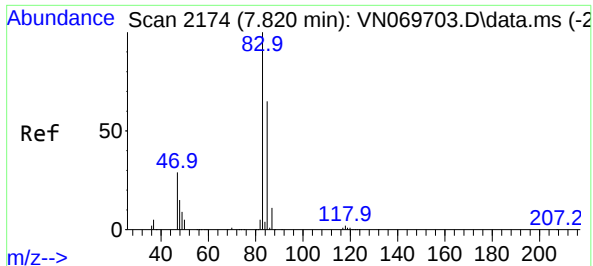
Tgt Ion: 49 Resp: 8933
Ion Ratio Lower Upper
49 100
129 0.0 0.0 4.0
130 0.0 67.8 101.8#



#29
Tetrahydrofuran
Concen: 0.318 ug/l
RT: 7.697 min Scan# 2128
Delta R.T. 0.011 min
Lab File: VN069864.D
Acq: 8 Dec 2021 16:29

Tgt Ion: 42 Resp: 3278
Ion Ratio Lower Upper
42 100
72 54.6 36.3 54.5#
71 65.0 34.7 52.1#

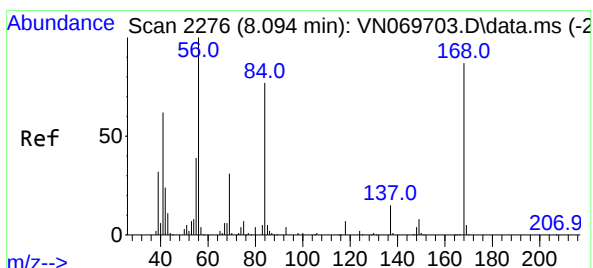
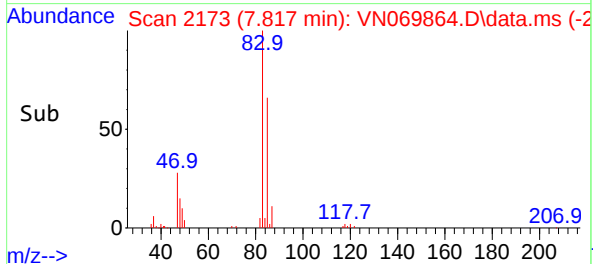
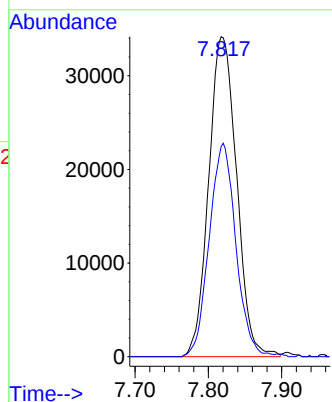
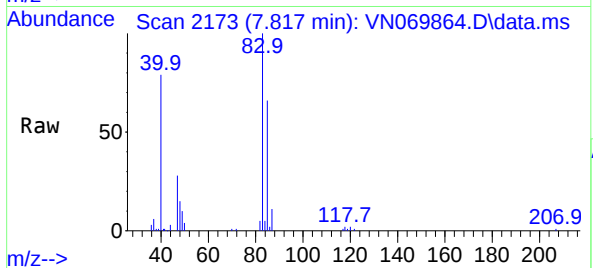




#30
Chloroform
Concen: 3.065 ug/l
RT: 7.817 min Scan# 2173
Delta R.T. -0.003 min
Lab File: VN069864.D
Acq: 8 Dec 2021 16:29

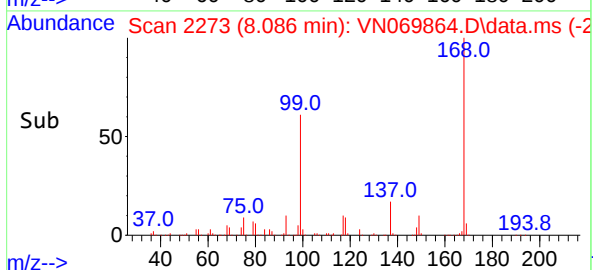
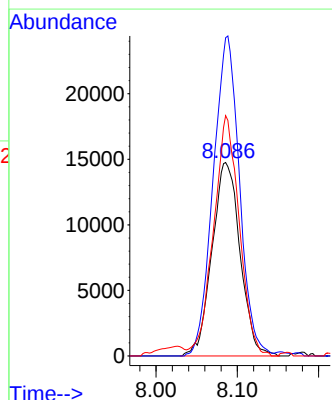
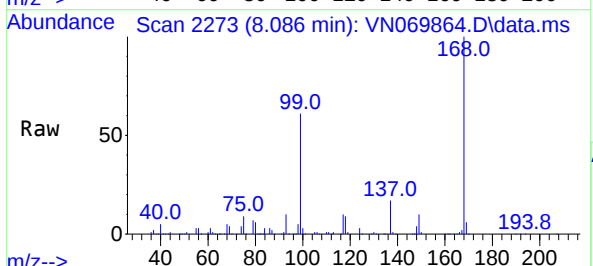
Instrument :
MSVOA_N
ClientSampleId :
DUP07-20211205

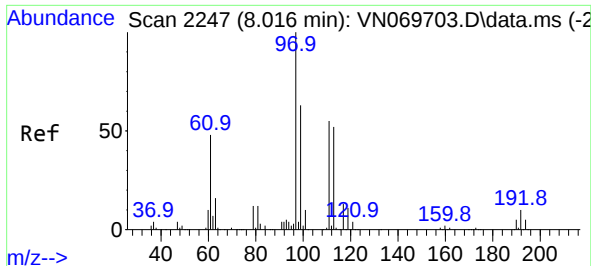
Tgt Ion: 83 Resp: 90455
Ion Ratio Lower Upper
83 100
85 65.7 51.9 77.9



#31
Cyclohexane
Concen: 1.224 ug/l
RT: 8.086 min Scan# 2273
Delta R.T. -0.008 min
Lab File: VN069864.D
Acq: 8 Dec 2021 16:29

Tgt Ion: 56 Resp: 35363
Ion Ratio Lower Upper
56 100
69 164.5 27.1 40.7#
84 123.0 73.4 110.0#

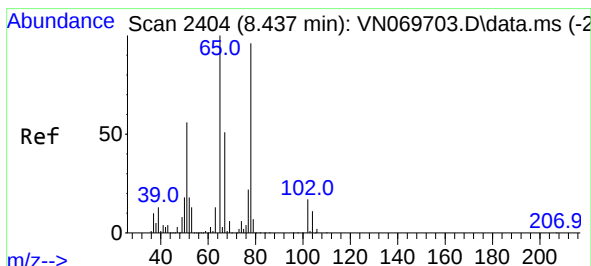
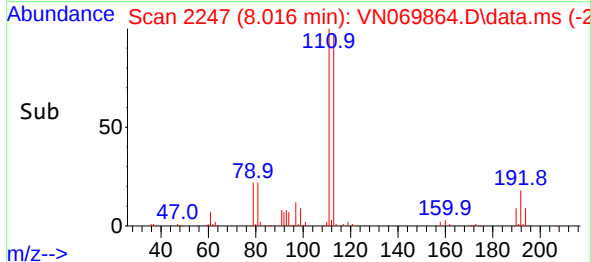
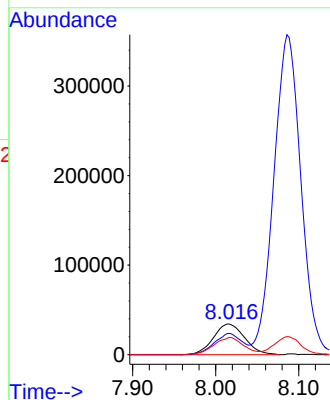
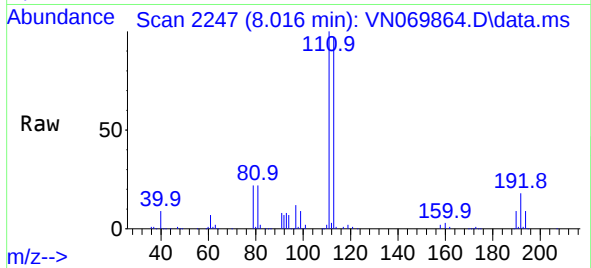




#32
1,1,1-Trichloroethane
Concen: 3.570 ug/l
RT: 8.016 min Scan# 21
Delta R.T. 0.000 min
Lab File: VN069864.D
Acq: 8 Dec 2021 16:29

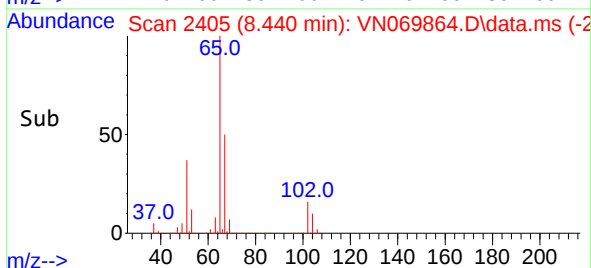
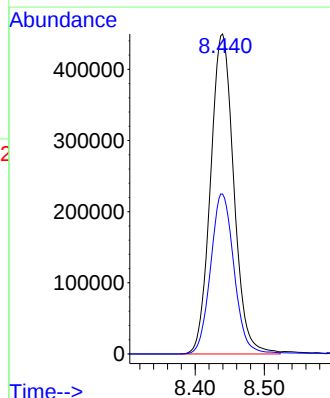
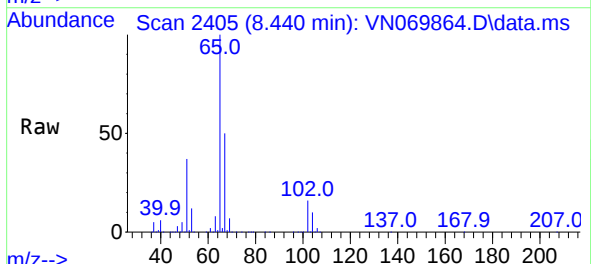
Instrument :
MSVOA_N
ClientSampleId :
DUP07-20211205

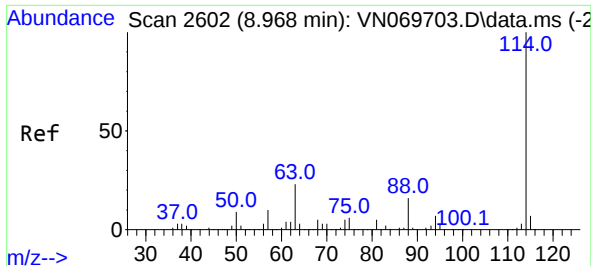
Tgt Ion: 97 Resp: 89759
Ion Ratio Lower Upper
97 100
99 61.3 50.1 75.1
61 53.7 35.2 52.8#



#33
1,2-Dichloroethane-d4
Concen: 50.609 ug/l
RT: 8.440 min Scan# 2405
Delta R.T. 0.003 min
Lab File: VN069864.D
Acq: 8 Dec 2021 16:29

Tgt Ion: 65 Resp: 1050874
Ion Ratio Lower Upper
65 100
67 50.5 0.0 103.0





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.968 min Scan# 2

Delta R.T. -0.000 min

Lab File: VN069864.D

Acq: 8 Dec 2021 16:29

Instrument :

MSVOA_N

ClientSampleId :

DUP07-20211205

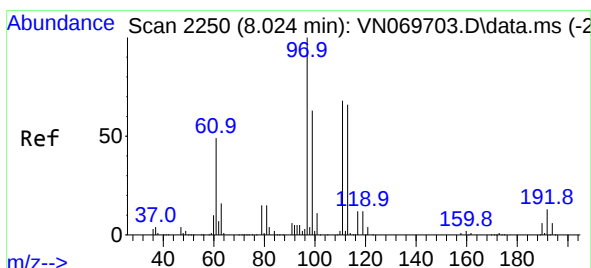
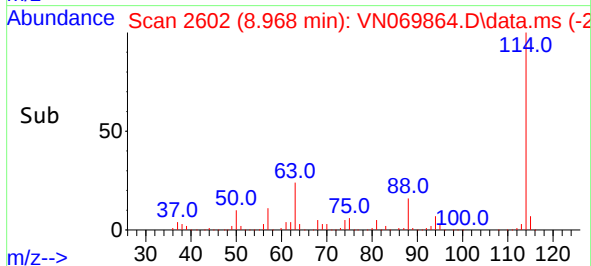
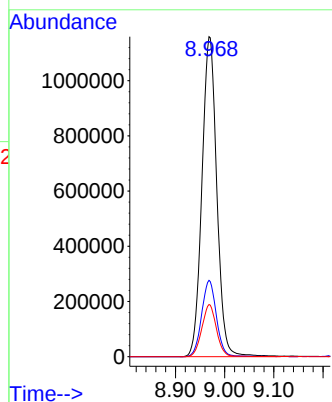
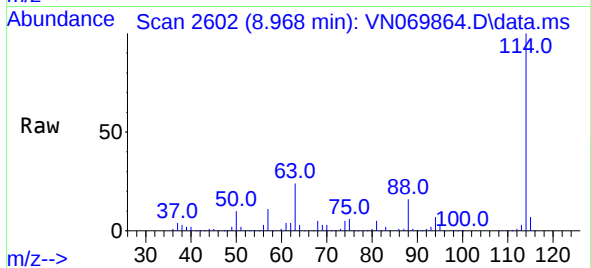
Tgt Ion:114 Resp: 2433880

Ion Ratio Lower Upper

114 100

63 23.9 0.0 37.8

88 16.3 0.0 27.4



#35

Dibromofluoromethane

Concen: 48.127 ug/l

RT: 8.021 min Scan# 2249

Delta R.T. -0.003 min

Lab File: VN069864.D

Acq: 8 Dec 2021 16:29

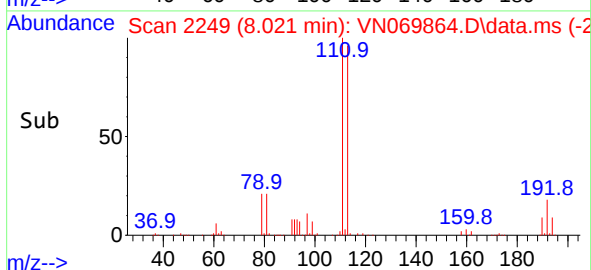
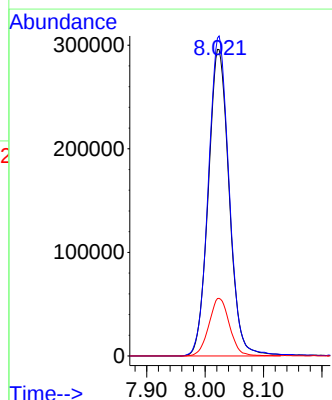
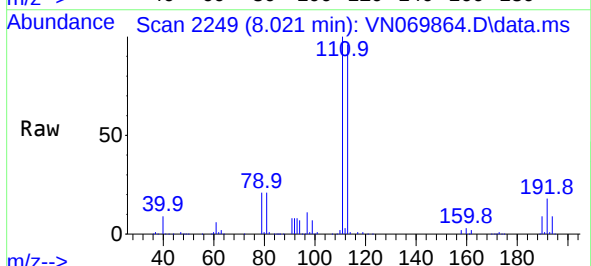
Tgt Ion:113 Resp: 733707

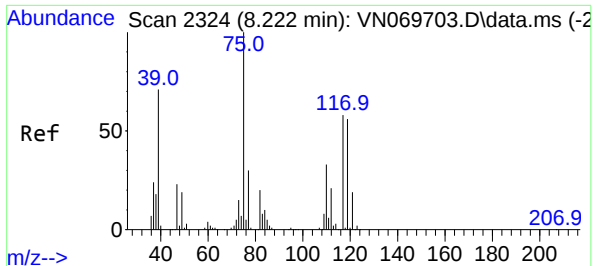
Ion Ratio Lower Upper

113 100

111 103.4 82.2 123.2

192 18.6 16.9 25.3





#36

1,1-Dichloropropene

Concen: 4.954 ug/l

RT: 8.086 min Scan# 21

Delta R.T. -0.137 min

Lab File: VN069864.D

Acq: 8 Dec 2021 16:29

Instrument :

MSVOA_N

ClientSampleId :

DUP07-20211205

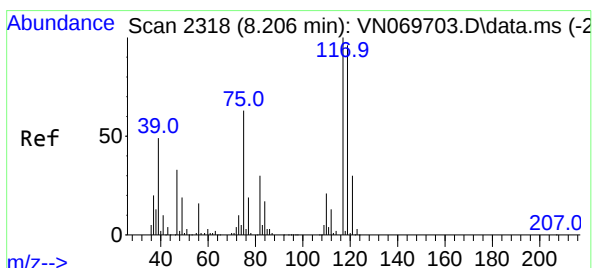
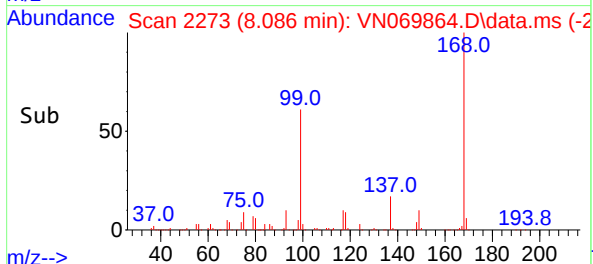
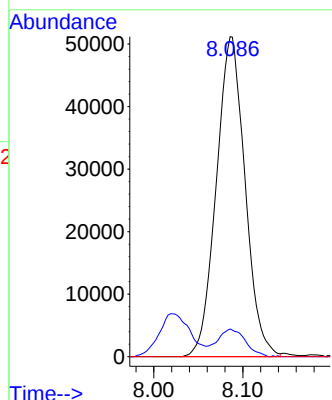
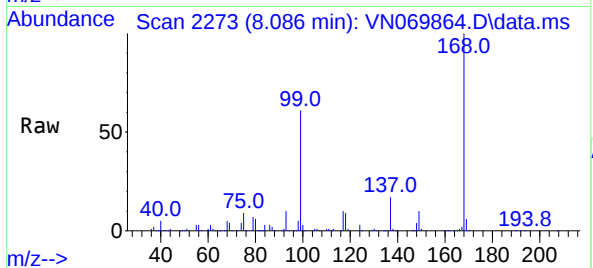
Tgt Ion: 75 Resp: 114780

Ion Ratio Lower Upper

75 100

110 8.3 18.4 55.2#

77 0.0 24.4 36.6#



#38

Carbon Tetrachloride

Concen: 5.921 ug/l

RT: 8.086 min Scan# 2273

Delta R.T. -0.121 min

Lab File: VN069864.D

Acq: 8 Dec 2021 16:29

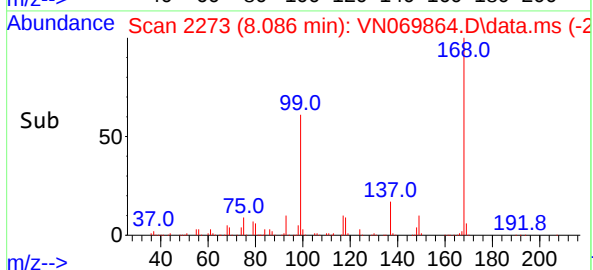
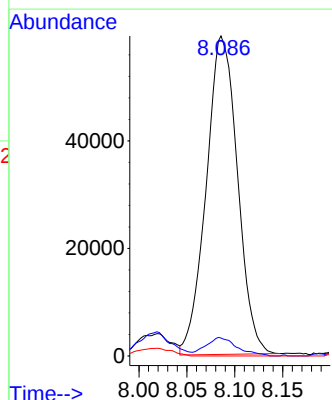
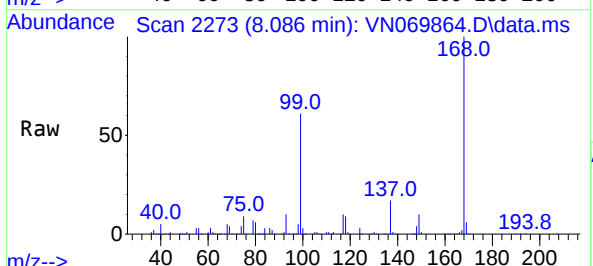
Tgt Ion: 117 Resp: 134523

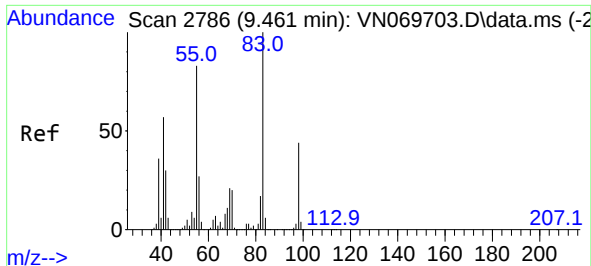
Ion Ratio Lower Upper

117 100

119 5.7 76.1 114.1#

121 0.0 24.2 36.2#





#39

Methylcyclohexane

Concen: 0.476 ug/l

RT: 9.217 min Scan# 2

Delta R.T. -0.244 min

Lab File: VN069864.D

Acq: 8 Dec 2021 16:29

Instrument :

MSVOA_N

ClientSampleId :

DUP07-20211205

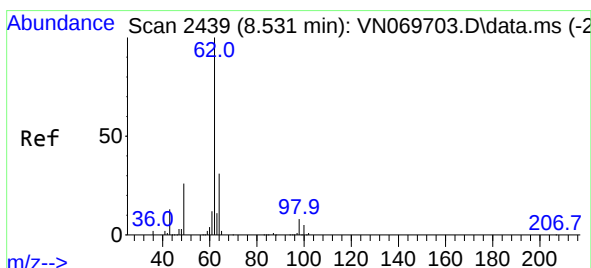
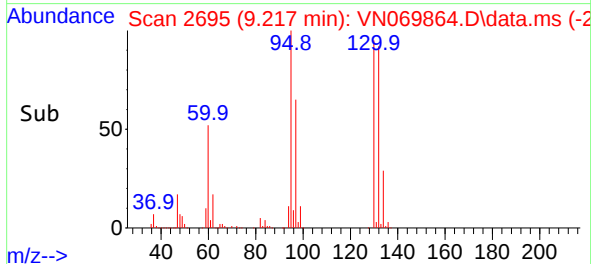
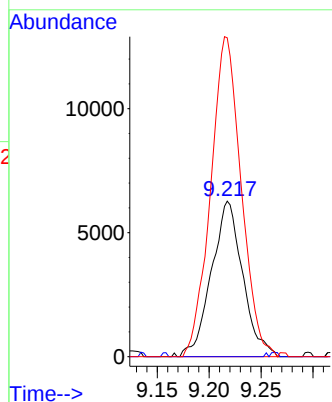
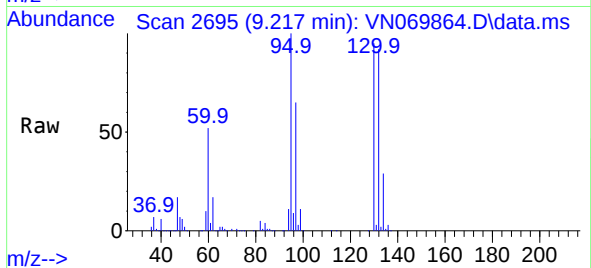
Tgt Ion: 83 Resp: 13126

Ion Ratio Lower Upper

83 100

55 0.0 58.1 87.1#

98 204.9 38.4 57.6#



#42

1,2-Dichloroethane

Concen: 0.222 ug/l

RT: 8.536 min Scan# 2441

Delta R.T. 0.005 min

Lab File: VN069864.D

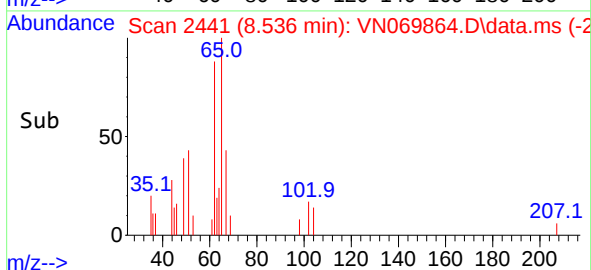
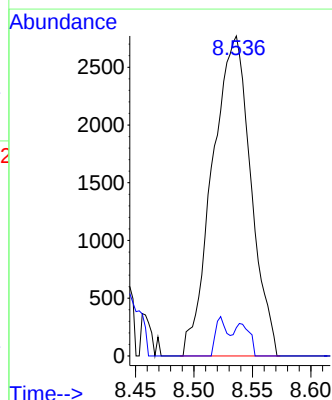
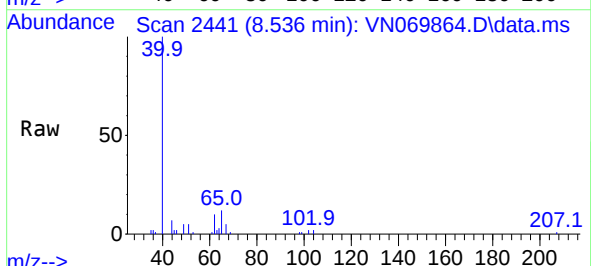
Acq: 8 Dec 2021 16:29

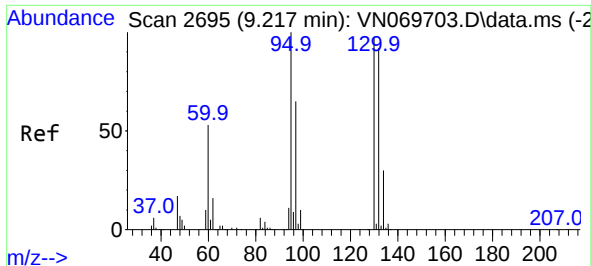
Tgt Ion: 62 Resp: 6341

Ion Ratio Lower Upper

62 100

98 4.1 0.0 17.6

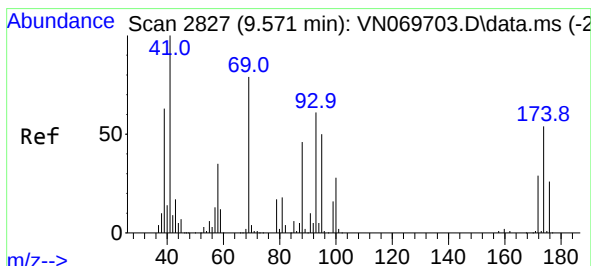
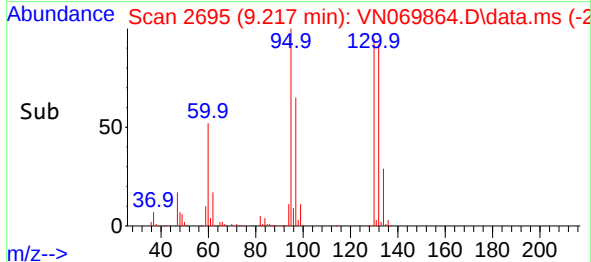
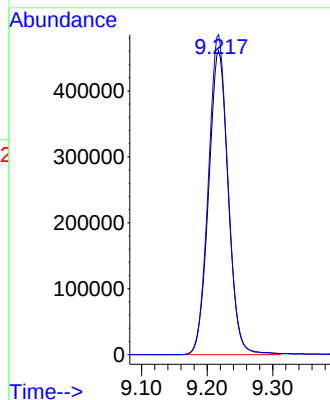
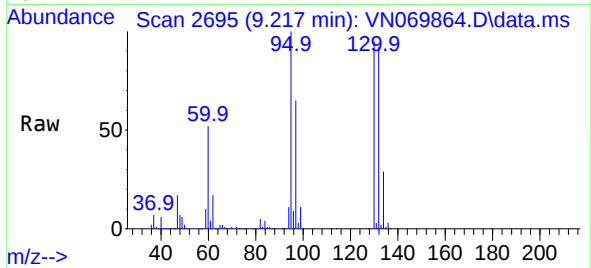




#44
Trichloroethene
Concen: 56.634 ug/l
RT: 9.217 min Scan# 21
Delta R.T. 0.000 min
Lab File: VN069864.D
Acq: 8 Dec 2021 16:29

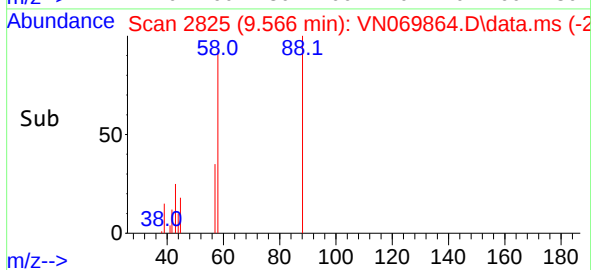
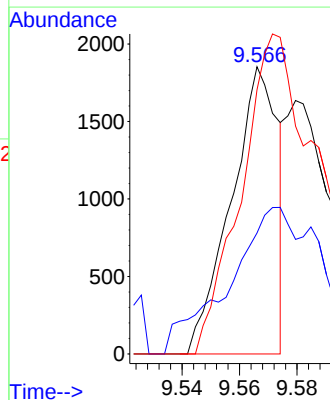
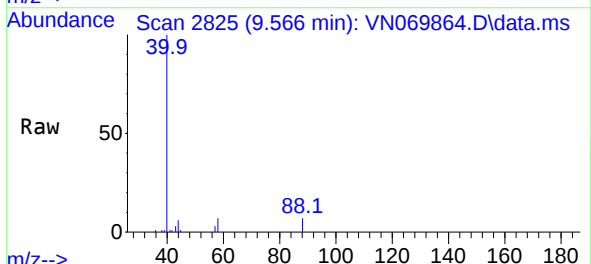
Instrument :
MSVOA_N
ClientSampleId :
DUP07-20211205

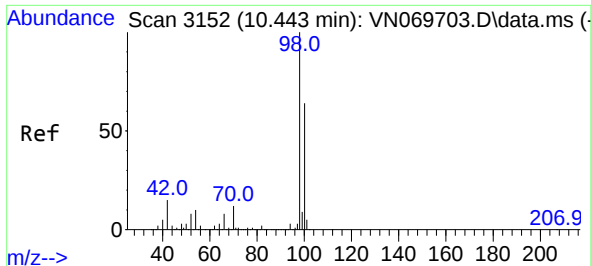
Tgt Ion:130 Resp: 957315
Ion Ratio Lower Upper
130 100
95 105.2 0.0 191.2



#49
1,4-Dioxane
Concen: 4.891 ug/l
RT: 9.566 min Scan# 2825
Delta R.T. -0.005 min
Lab File: VN069864.D
Acq: 8 Dec 2021 16:29

Tgt Ion: 88 Resp: 2090
Ion Ratio Lower Upper
88 100
43 97.4 23.4 35.2#
58 191.2 50.6 75.8#

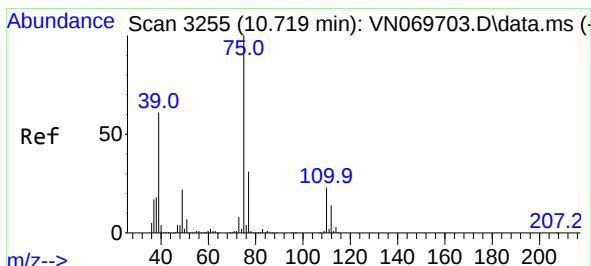
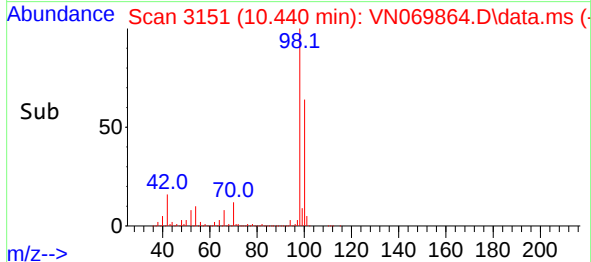
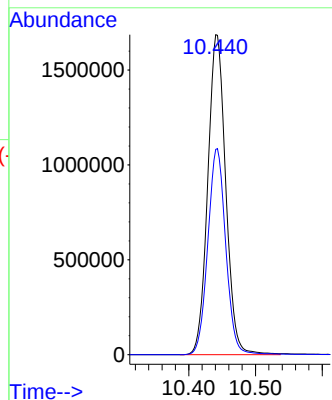
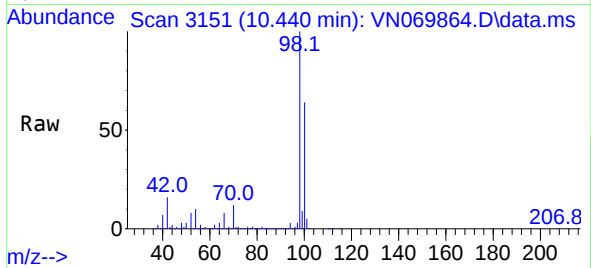




#50
Toluene-d8
Concen: 51.596 ug/l
RT: 10.440 min Scan# 3152
Delta R.T. -0.003 min
Lab File: VN069864.D
Acq: 8 Dec 2021 16:29

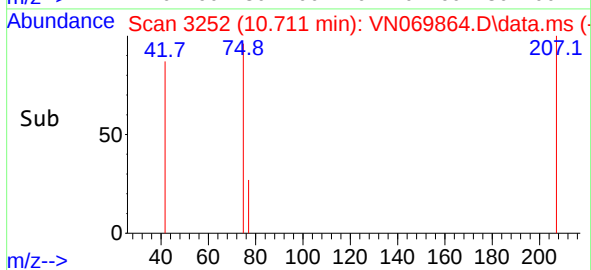
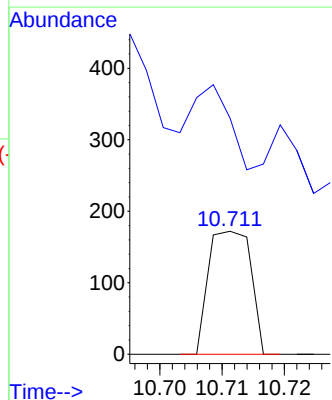
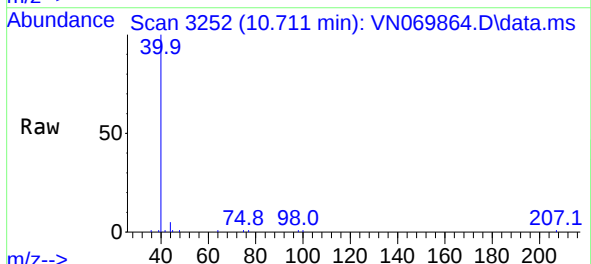
Instrument :
MSVOA_N
ClientSampleId :
DUP07-20211205

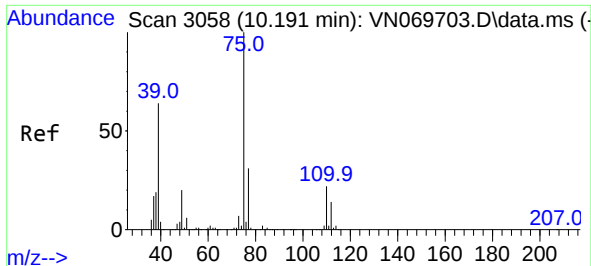
Tgt Ion: 98 Resp: 3158466
Ion Ratio Lower Upper
98 100
100 64.3 50.4 75.6



#53
t-1,3-Dichloropropene
Concen: 2.797 ug/l
RT: 10.711 min Scan# 3252
Delta R.T. -0.008 min
Lab File: VN069864.D
Acq: 8 Dec 2021 16:29

Tgt Ion: 75 Resp: 81
Ion Ratio Lower Upper
75 100
77 11.6 25.6 38.4#

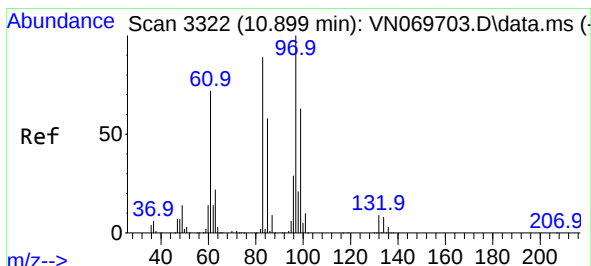
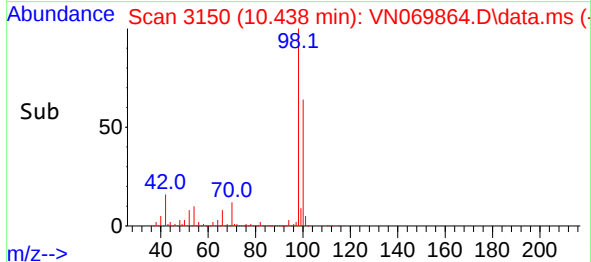
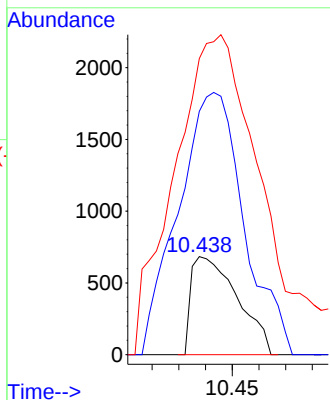
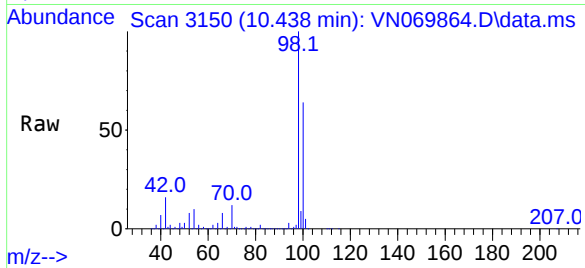




#54
cis-1,3-Dichloropropene
Concen: 2.025 ug/l
RT: 10.438 min Scan# 3150
Delta R.T. 0.247 min
Lab File: VN069864.D
Acq: 8 Dec 2021 16:29

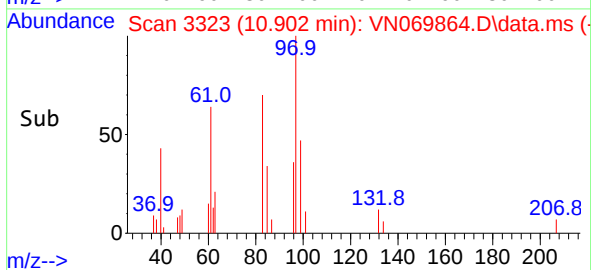
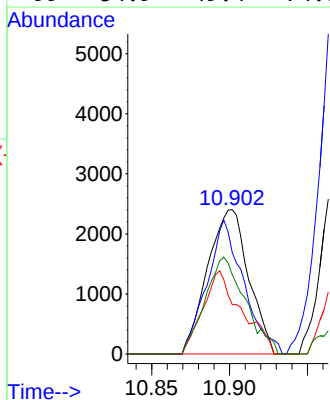
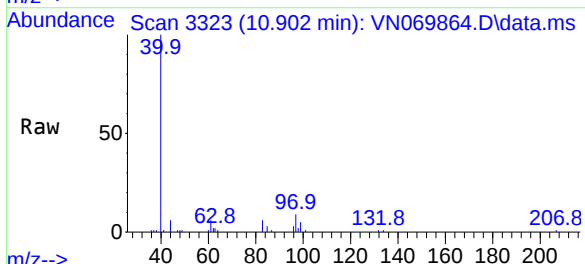
Instrument :
MSVOA_N
ClientSampleId :
DUP07-20211205

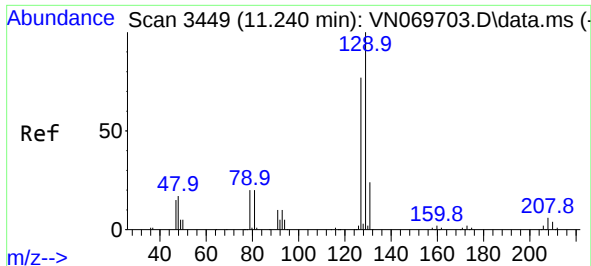
Tgt Ion: 75 Resp: 825
Ion Ratio Lower Upper
75 100
77 198.2 26.4 39.6#
39 208.0 42.5 63.7#



#55
1,1,2-Trichloroethane
Concen: 0.253 ug/l
RT: 10.902 min Scan# 3323
Delta R.T. 0.003 min
Lab File: VN069864.D
Acq: 8 Dec 2021 16:29

Tgt Ion: 97 Resp: 4418
Ion Ratio Lower Upper
97 100
83 70.2 67.8 101.6
85 34.2 45.4 68.2#
99 54.9 49.4 74.0

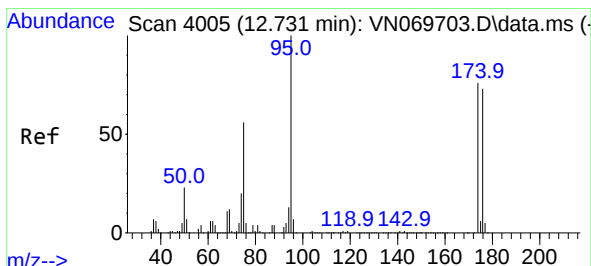
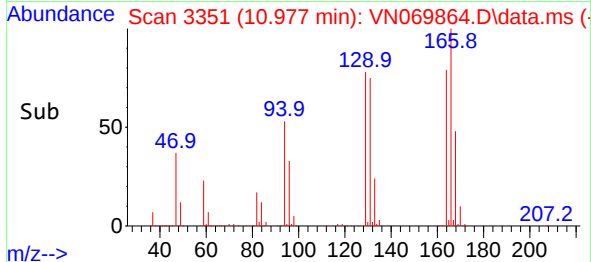
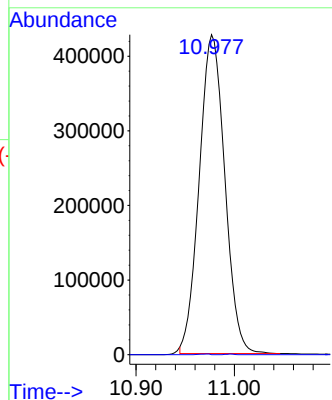
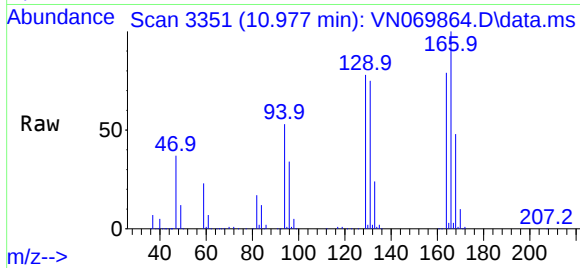




#60
Dibromochloromethane
Concen: 41.684 ug/l
RT: 10.977 min Scan# 31
Delta R.T. -0.263 min
Lab File: VN069864.D
Acq: 8 Dec 2021 16:29

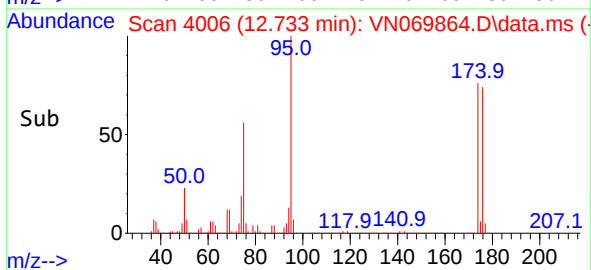
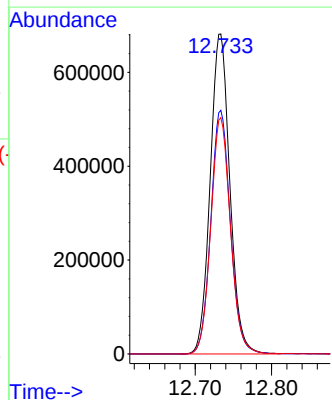
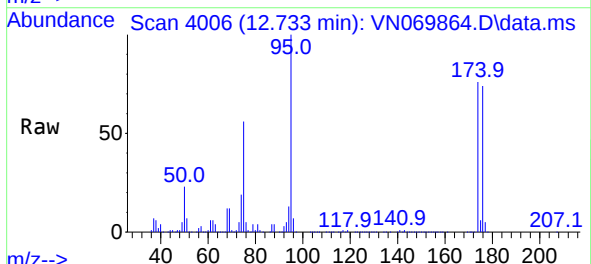
Instrument :
MSVOA_N
ClientSampleId :
DUP07-20211205

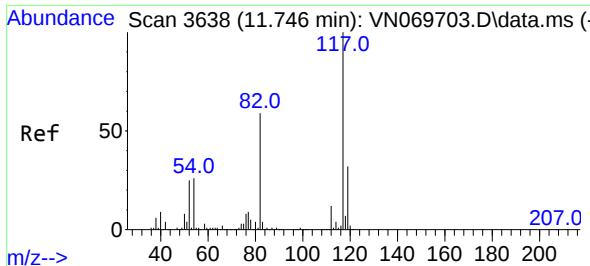
Tgt Ion:129 Resp: 771410
Ion Ratio Lower Upper
129 100
127 0.1 38.6 116.0#



#62
4-Bromofluorobenzene
Concen: 55.067 ug/l
RT: 12.733 min Scan# 4006
Delta R.T. 0.002 min
Lab File: VN069864.D
Acq: 8 Dec 2021 16:29

Tgt Ion: 95 Resp: 1221217
Ion Ratio Lower Upper
95 100
174 76.0 0.0 187.2
176 73.6 0.0 181.4

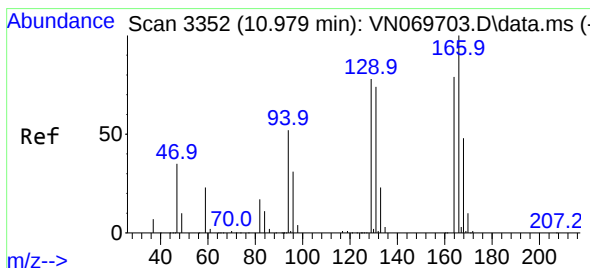
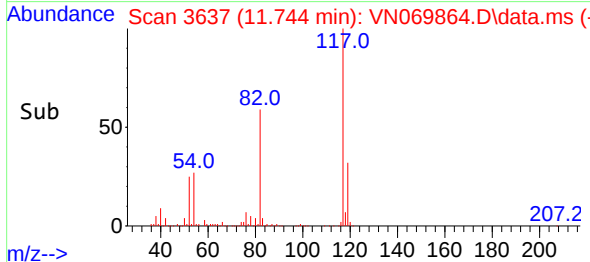
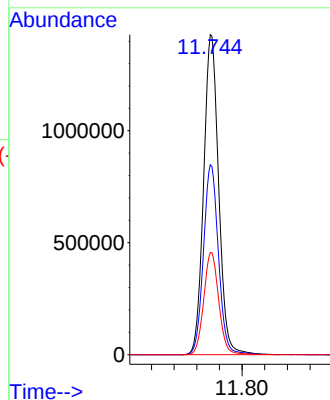
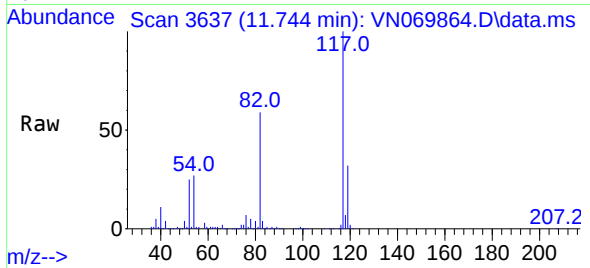




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.744 min Scan# 3638
Delta R.T. -0.002 min
Lab File: VN069864.D
Acq: 8 Dec 2021 16:29

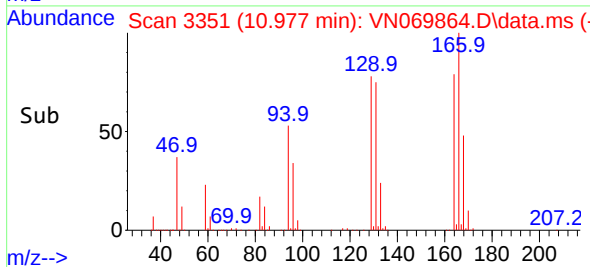
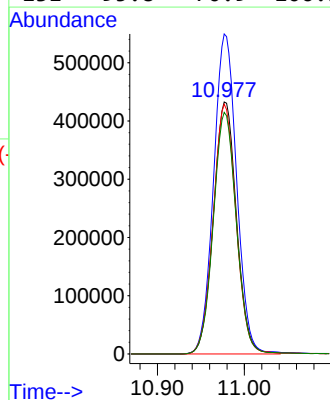
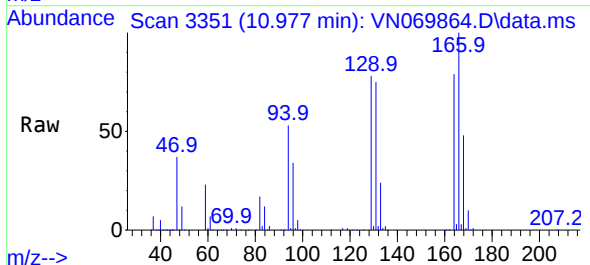
Instrument :
MSVOA_N
ClientSampleId :
DUP07-20211205

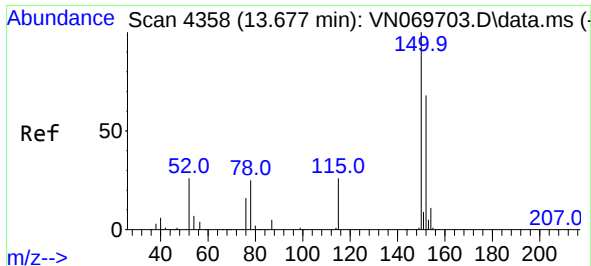
Tgt Ion:117 Resp: 2631401
Ion Ratio Lower Upper
117 100
82 59.3 42.4 63.6
119 31.9 25.4 38.2



#64
Tetrachloroethene
Concen: 44.794 ug/l
RT: 10.977 min Scan# 3351
Delta R.T. -0.002 min
Lab File: VN069864.D
Acq: 8 Dec 2021 16:29

Tgt Ion:164 Resp: 799248
Ion Ratio Lower Upper
164 100
166 127.0 101.9 152.9
129 99.1 72.0 108.0
131 95.8 70.9 106.3

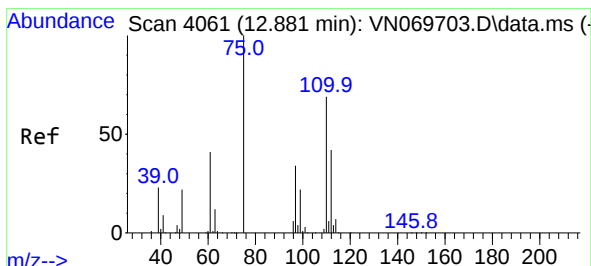
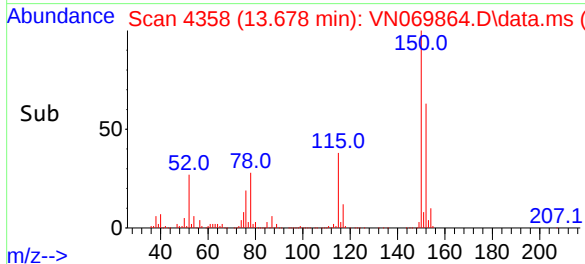
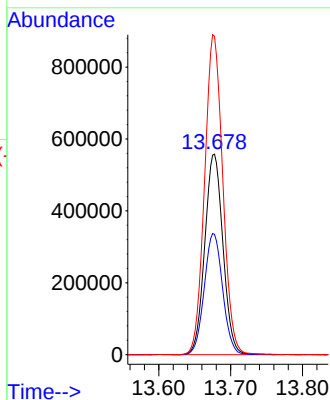
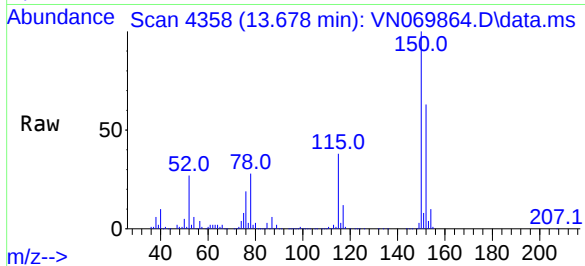




#72
 1,4-Dichlorobenzene-d4
 Concen: 50.000 ug/l
 RT: 13.678 min Scan# 41
 Delta R.T. 0.000 min
 Lab File: VN069864.D
 Acq: 8 Dec 2021 16:29

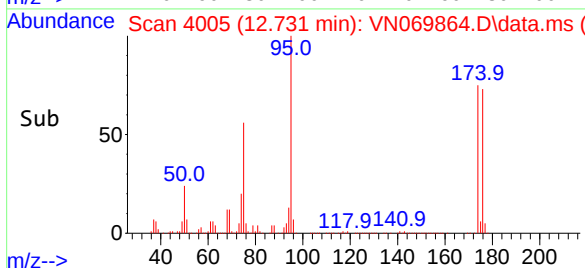
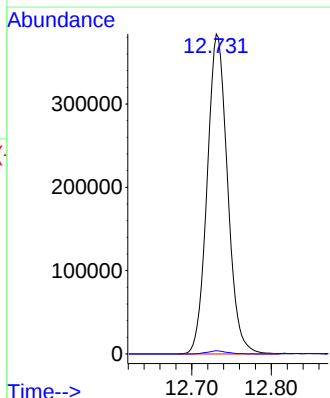
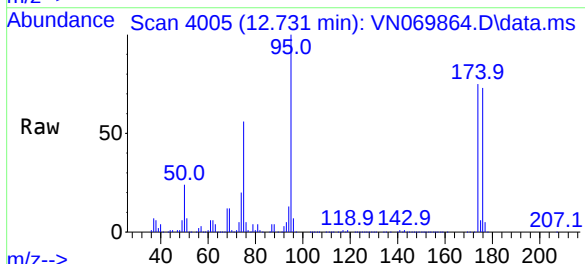
Instrument :
 MSVOA_N
 ClientSampleId :
 DUP07-20211205

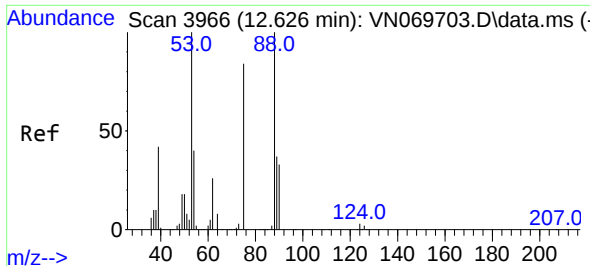
Tgt Ion:152 Resp: 985293
 Ion Ratio Lower Upper
 152 100
 115 61.0 27.5 82.5
 150 158.7 0.0 344.4



#76
 1,2,3-Trichloropropane
 Concen: 24.222 ug/l
 RT: 12.731 min Scan# 4005
 Delta R.T. -0.150 min
 Lab File: VN069864.D
 Acq: 8 Dec 2021 16:29

Tgt Ion: 75 Resp: 684413
 Ion Ratio Lower Upper
 75 100
 77 1.0 82.6 247.8#

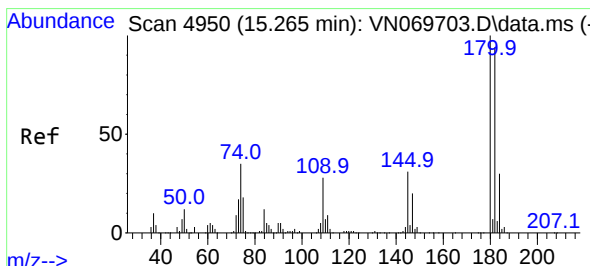
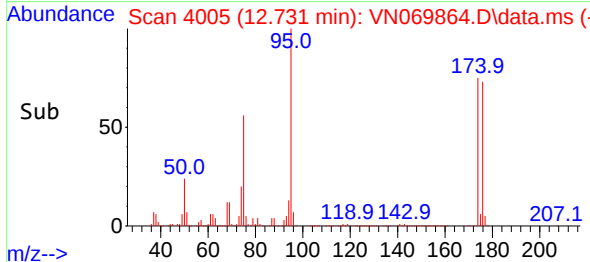
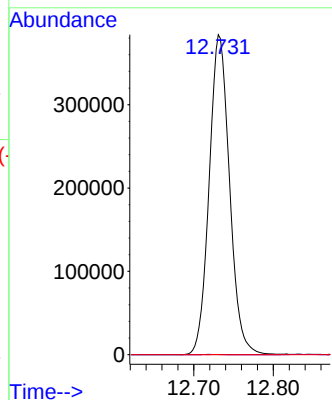
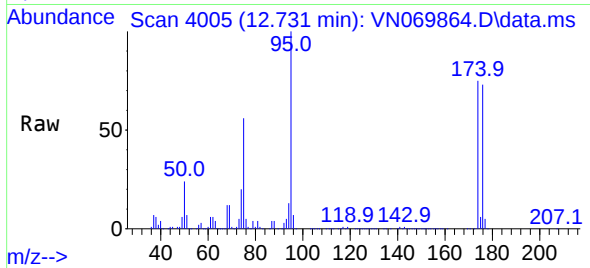




#81
trans-1,4-Dichloro-2-butene
Concen: 76.898 ug/l
RT: 12.731 min Scan# 4005
Delta R.T. 0.105 min
Lab File: VN069864.D
Acq: 8 Dec 2021 16:29

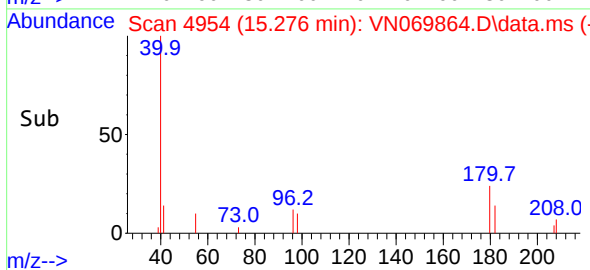
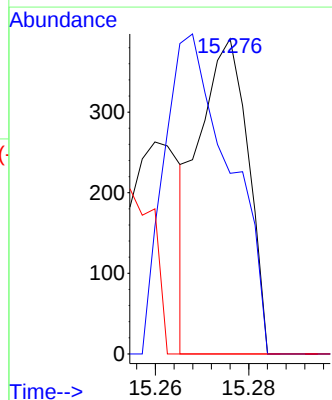
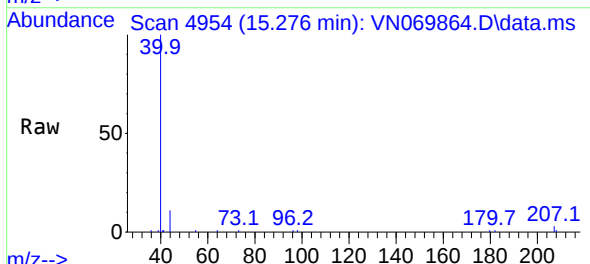
Instrument :
MSVOA_N
ClientSampleId :
DUP07-20211205

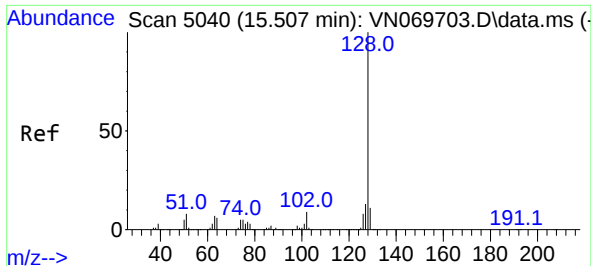
Tgt Ion: 75 Resp: 684413
Ion Ratio Lower Upper
75 100
53 0.0 90.5 135.7#
89 0.0 38.2 57.4#



#93
1,2,4-Trichlorobenzene
Concen: 2.895 ug/l
RT: 15.276 min Scan# 4954
Delta R.T. 0.011 min
Lab File: VN069864.D
Acq: 8 Dec 2021 16:29

Tgt Ion:180 Resp: 285
Ion Ratio Lower Upper
180 100
182 136.1 48.3 144.9
145 0.0 14.5 43.5#

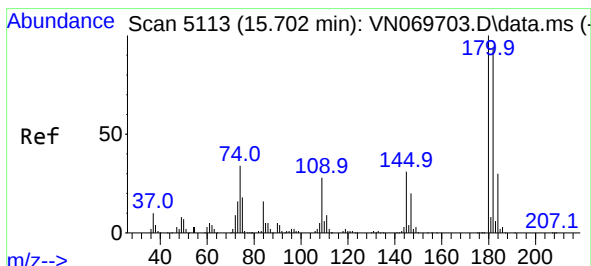
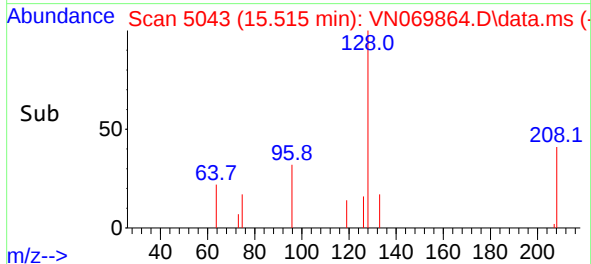
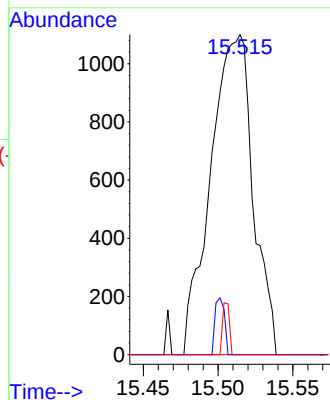
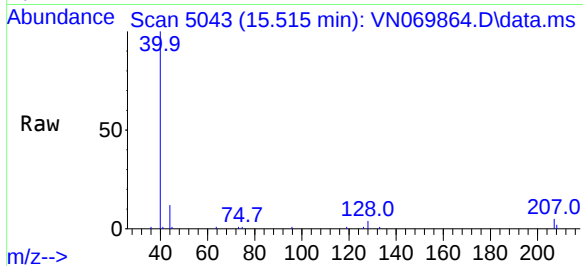




#95
Naphthalene
Concen: 4.027 ug/l
RT: 15.515 min Scan# 5043
Delta R.T. 0.008 min
Lab File: VN069864.D
Acq: 8 Dec 2021 16:29

Instrument :
MSVOA_N
ClientSampleId :
DUP07-20211205

Tgt Ion:128 Resp: 2175
Ion Ratio Lower Upper
128 100
127 3.9 10.5 15.7#
129 2.6 8.7 13.1#



#96
1,2,3-Trichlorobenzene
Concen: 2.459 ug/l
RT: 15.708 min Scan# 5115
Delta R.T. 0.006 min
Lab File: VN069864.D
Acq: 8 Dec 2021 16:29

Tgt Ion:180 Resp: 393
Ion Ratio Lower Upper
180 100
182 152.7 47.4 142.2#
145 33.8 15.0 45.1

